

Figure 1

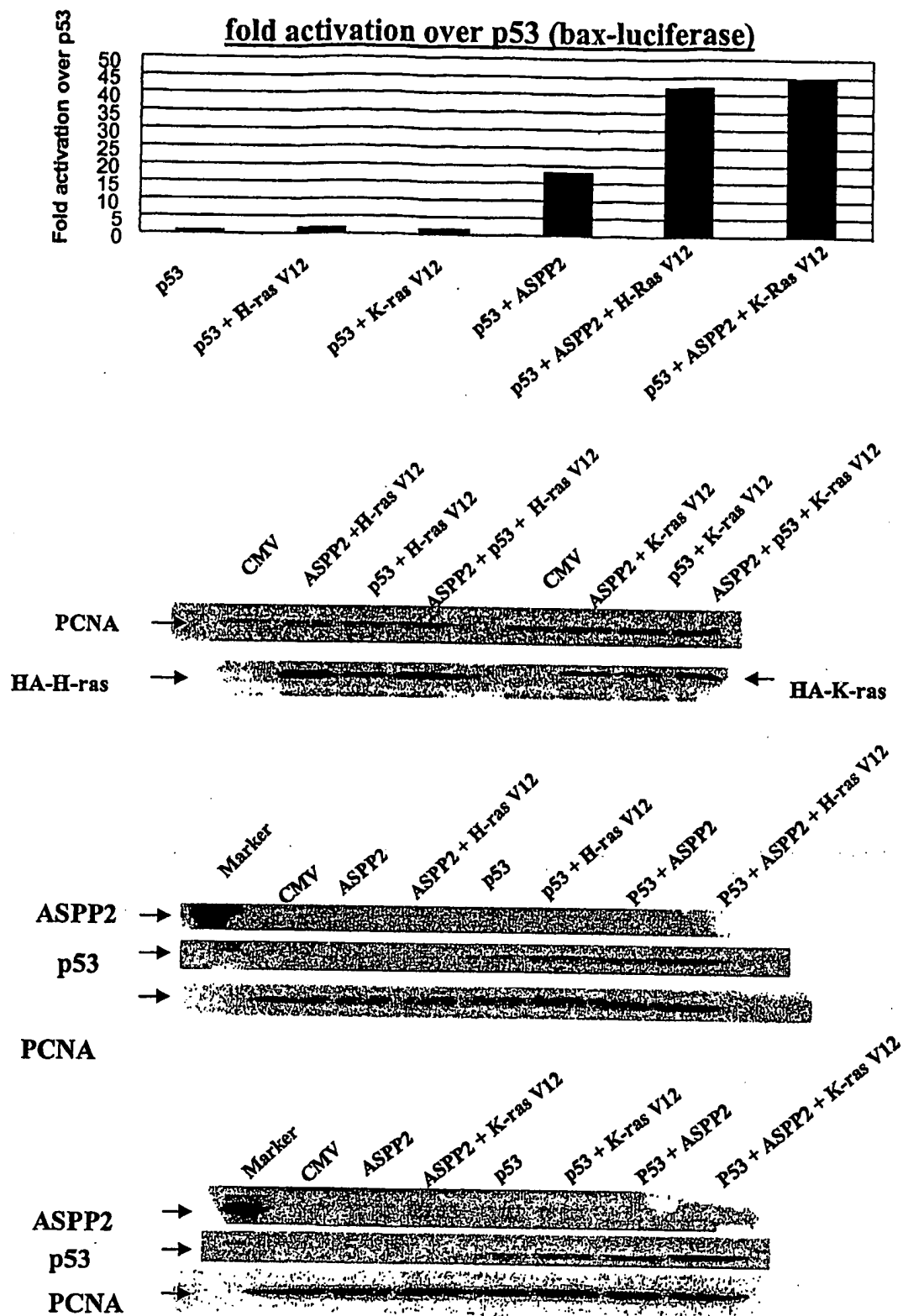
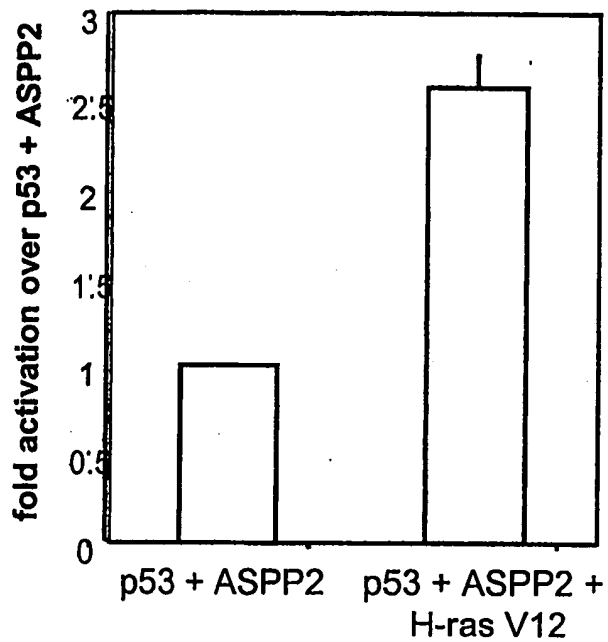


Figure 2

H-ras and K-ras activate ASPP equally

H-rasV12 activation  
of p53 & ASPP2 synergy



K-rasV12 activation  
of p53 & ASPP2 synergy

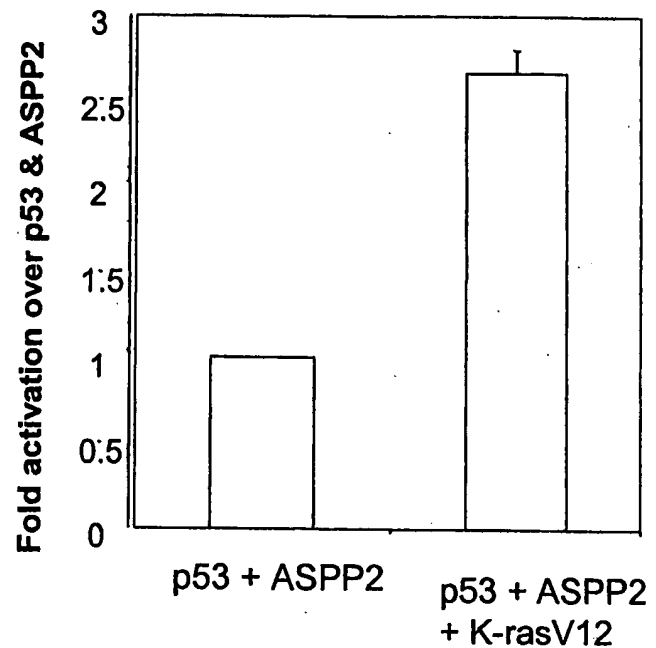


Figure 3

Figure 4A

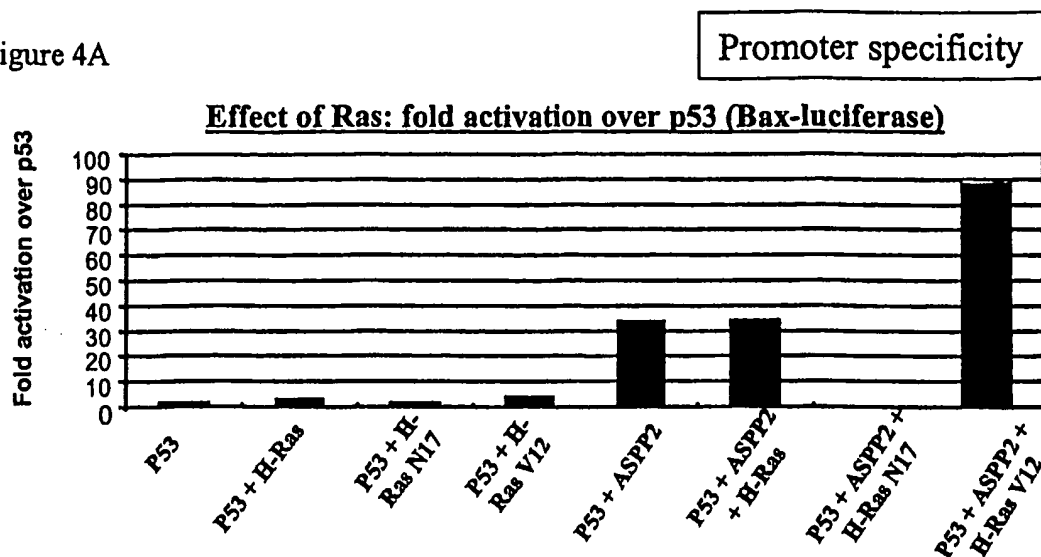


Figure 4B

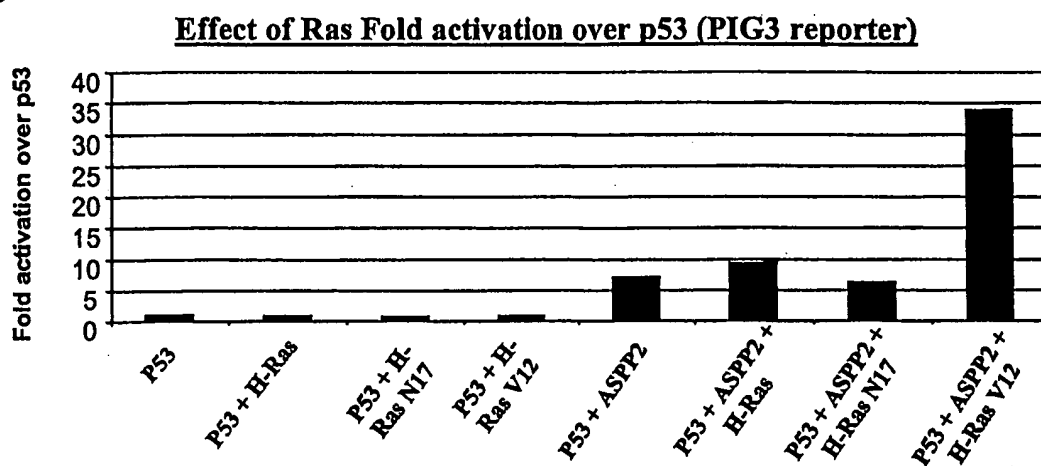


Figure 4C

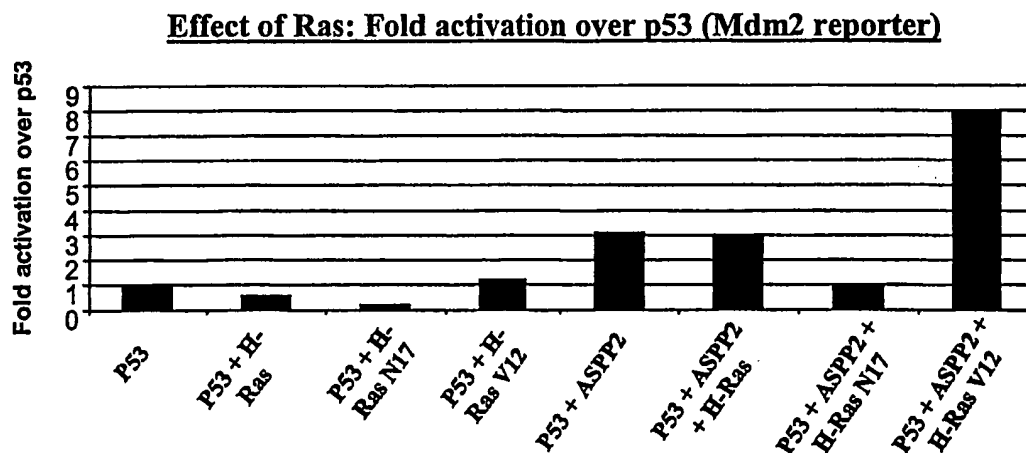


Figure 4D

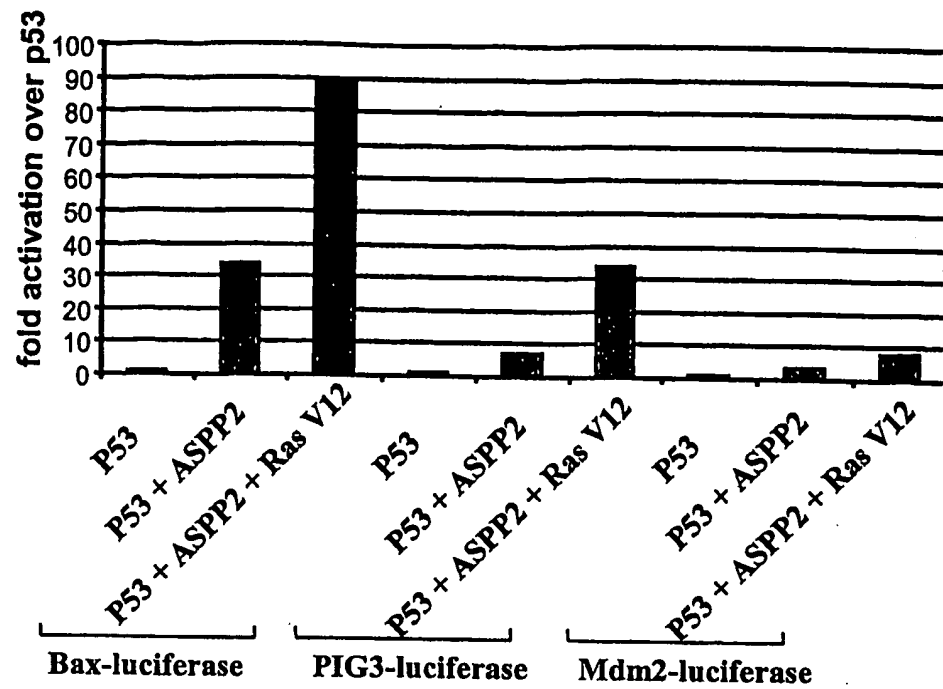
**Effect of rasV12 on transactivation: comparing three reporters**

Figure 4E

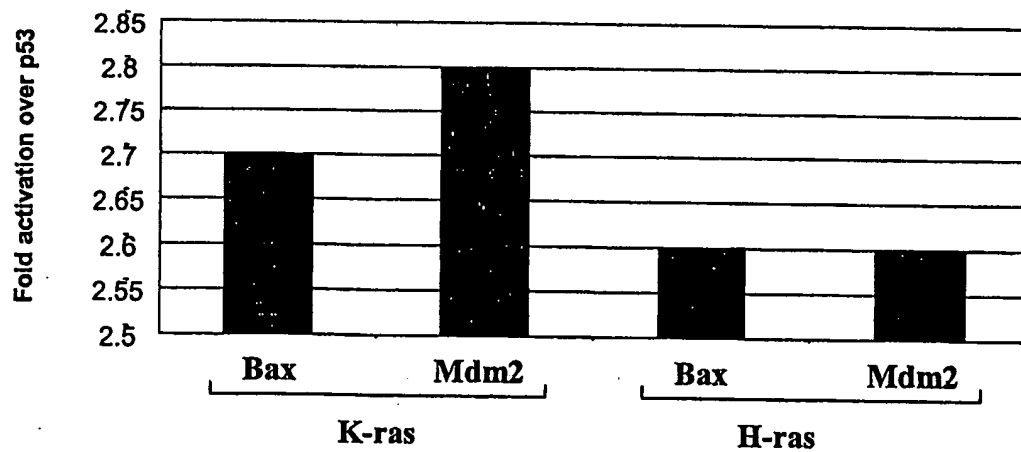
**Promoter specificity of rasV12**

Figure 5A

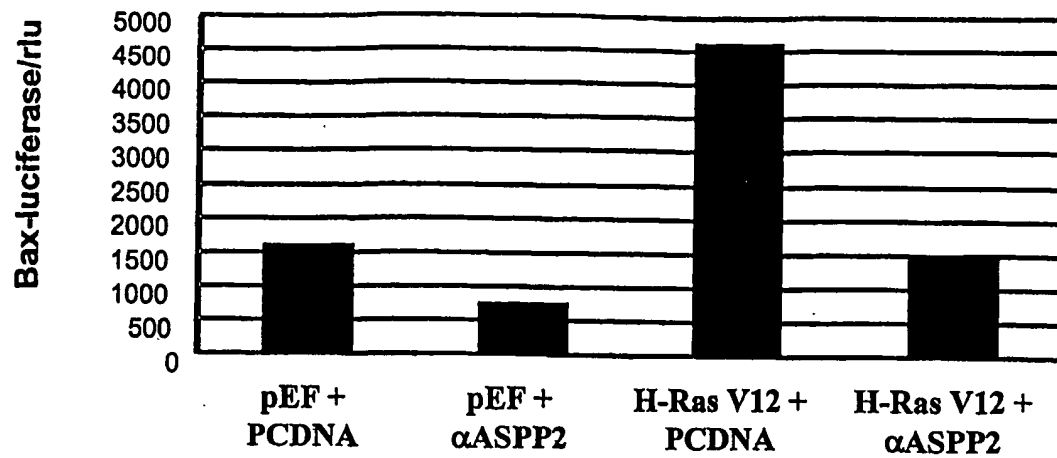
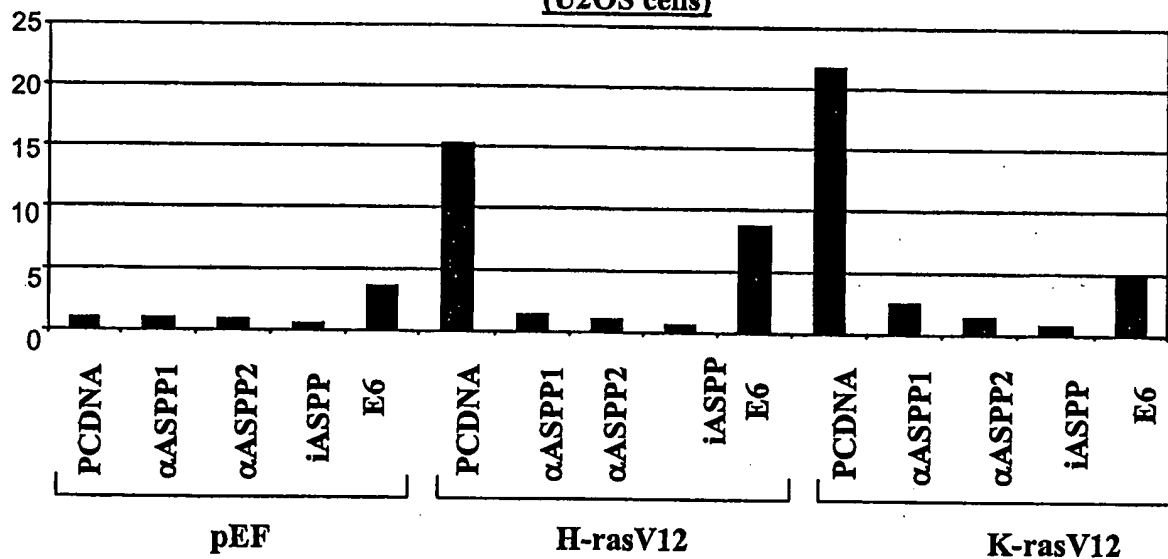
**H-rasV12 activates endogenous ASPP2 to transactivate bax reporter  
(U2OS cells)**

Figure 5B

**H- and K-rasV12 activate endogenous ASPP1, ASPP2 and p53 to transactivate bax-reporter  
(U2OS cells)**

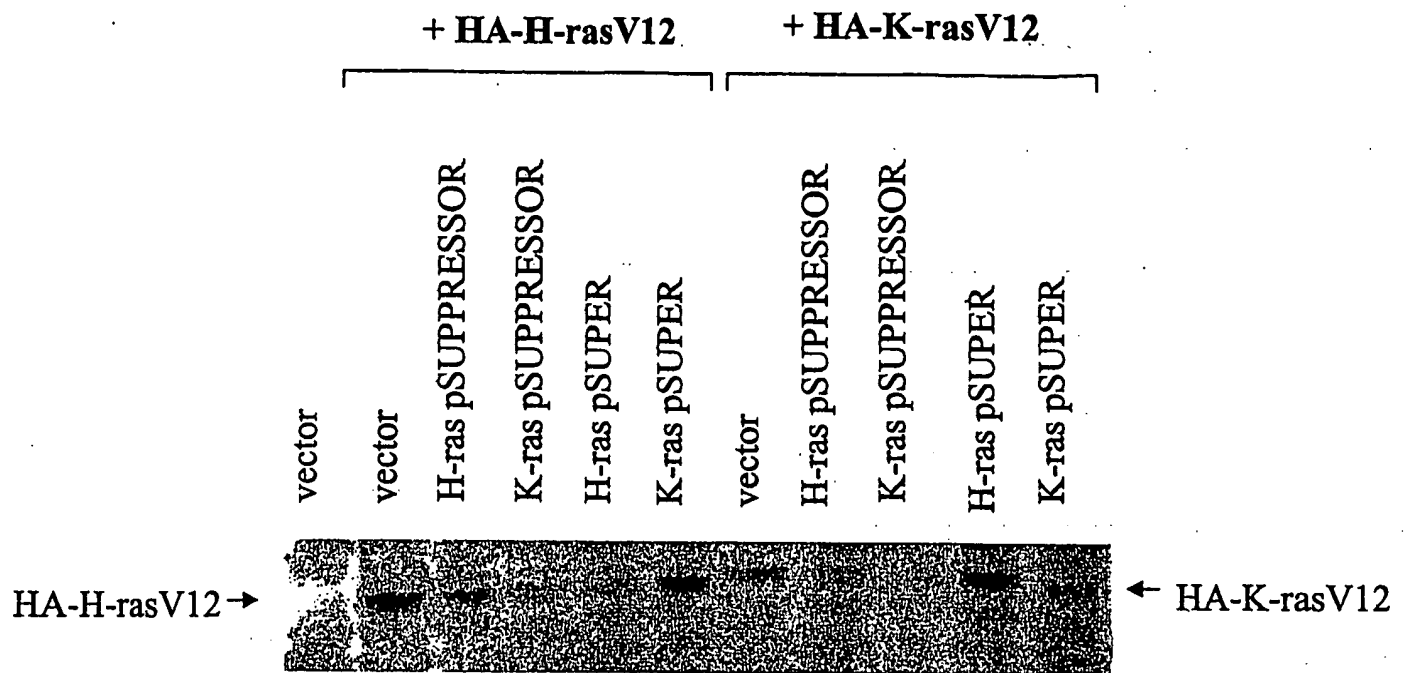


Figure 6

Figure 6B

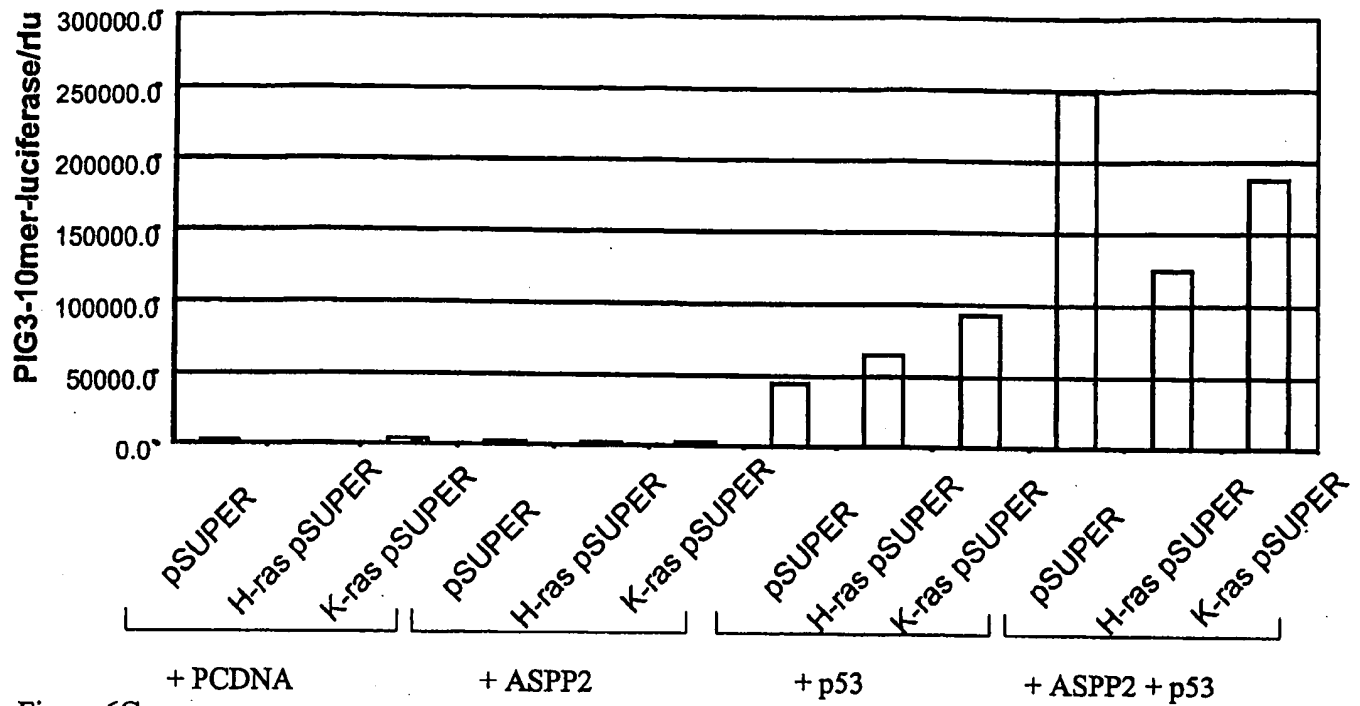
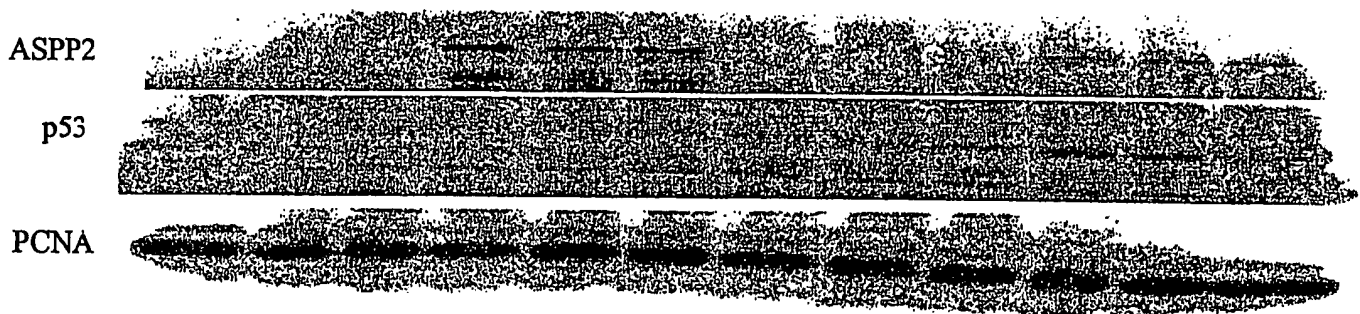


Figure 6C





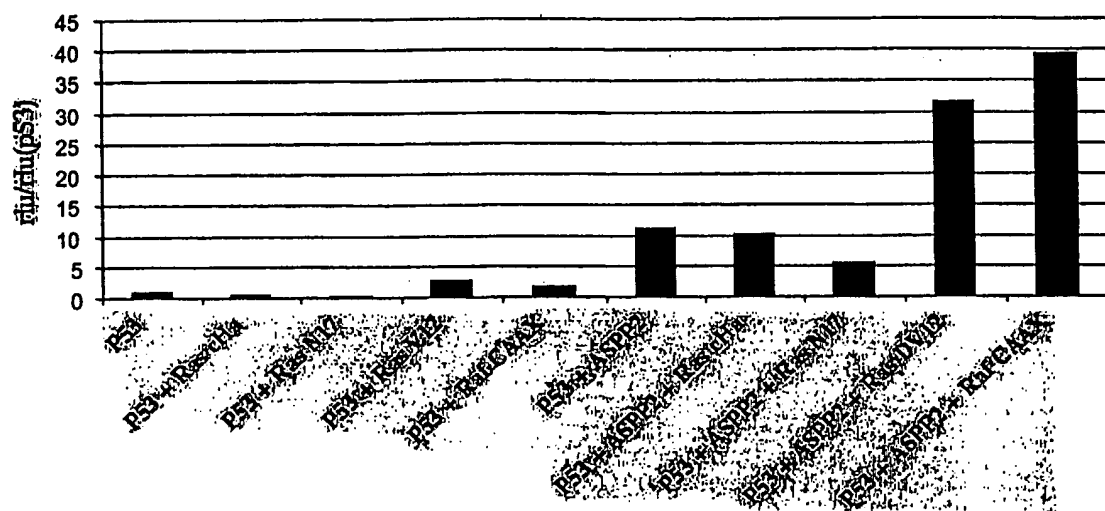
**Figure 7A**

Figure 7B

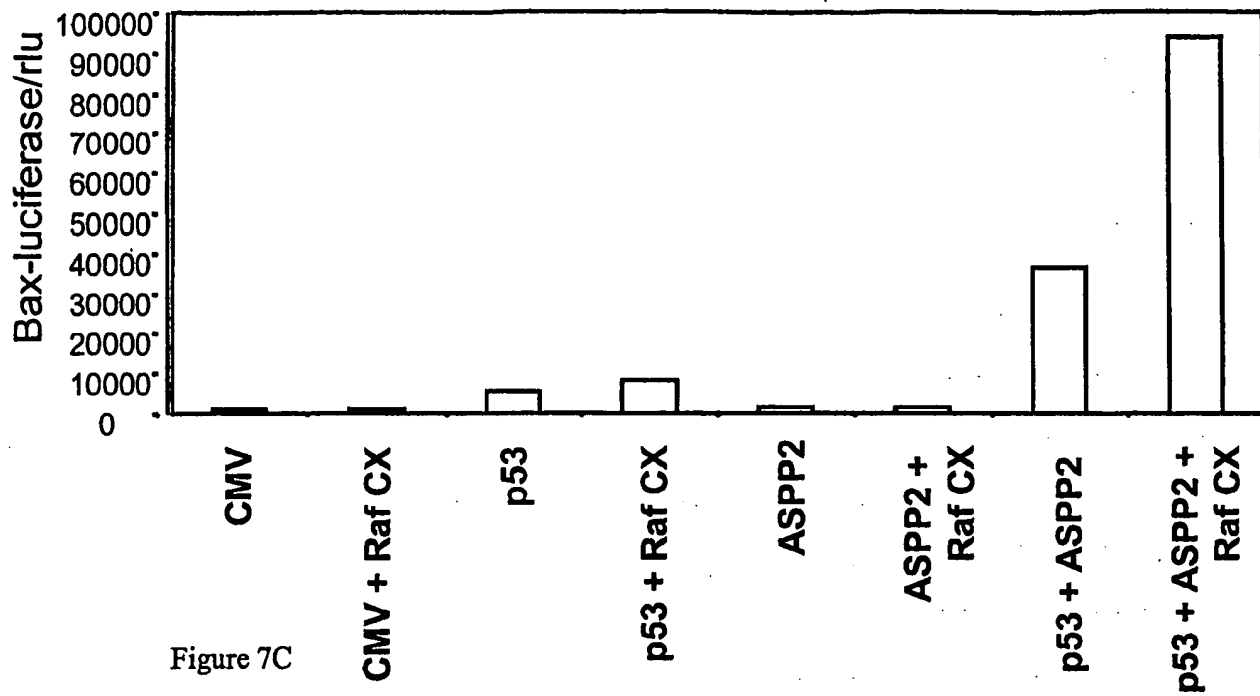


Figure 7C

ASPP2



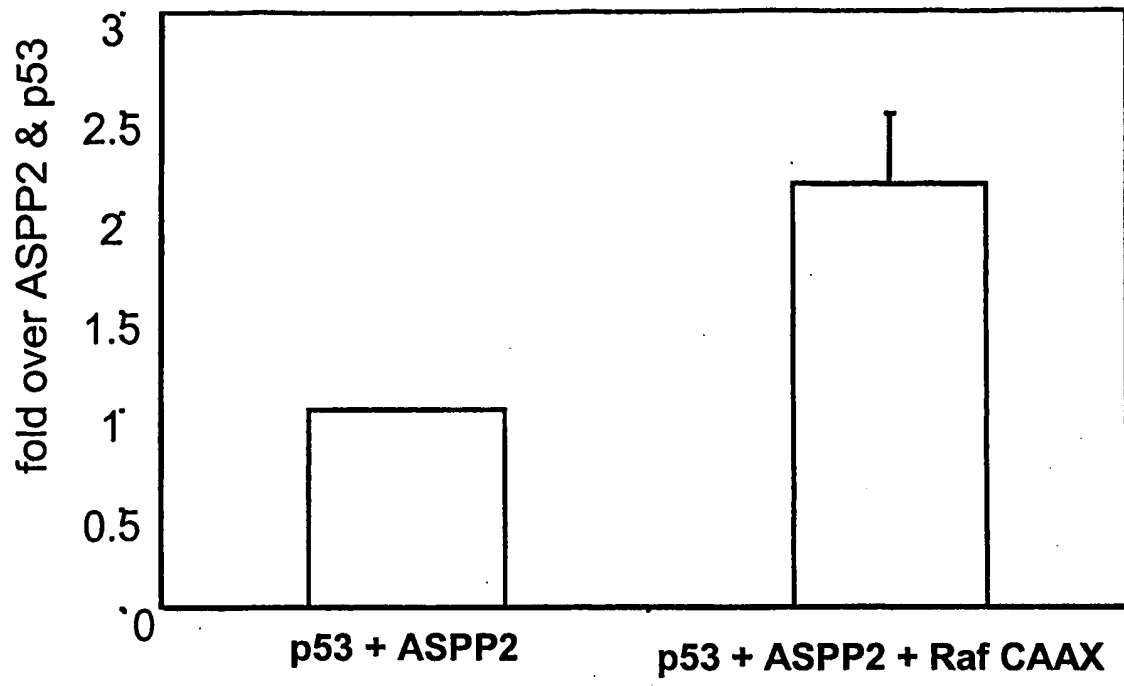
Raf



p53



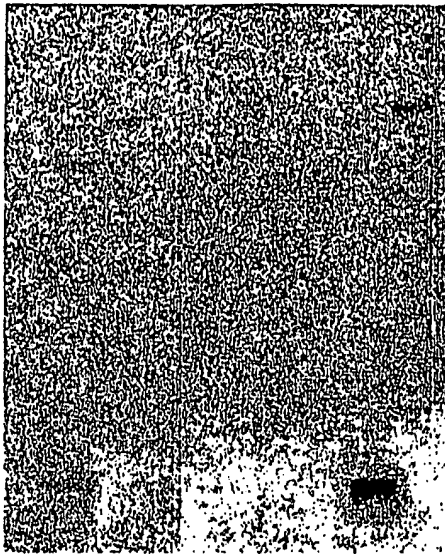
Figure 7d



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Figure 8A

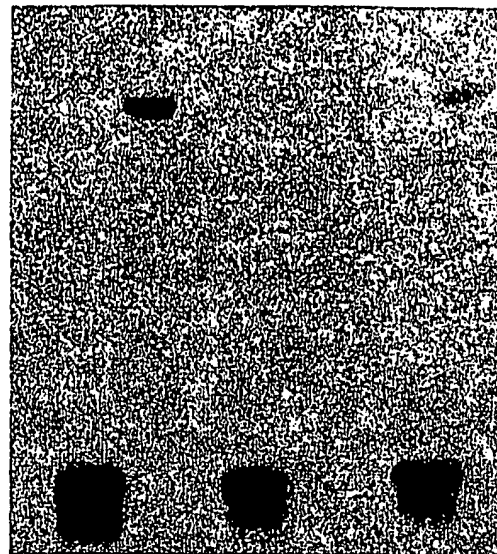
MAPK1 p70S6K p90rsk

H2B  
ASPP2H2B  
ASPP2H2B  
ASPP2

PKA

PKB

p38SAPK

H2B  
ASPP2H2B  
ASPP2H2B  
ASPP2

ASPP2

H2B

Figure 8B

PKA

p38 SAPK

MAPK1

p90rsk

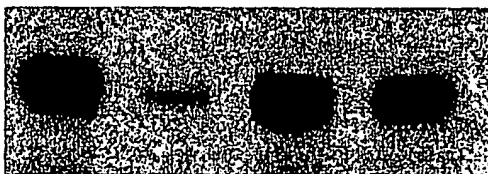


Figure 8C

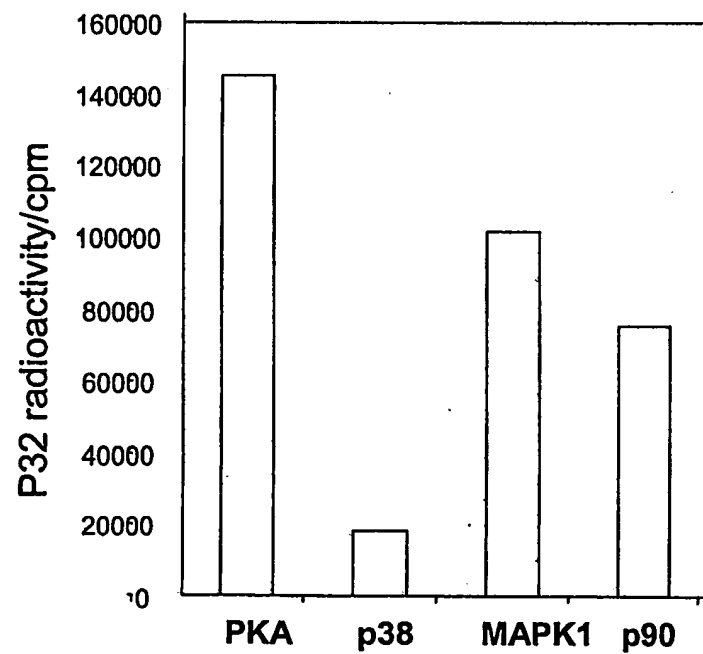


Figure 8D

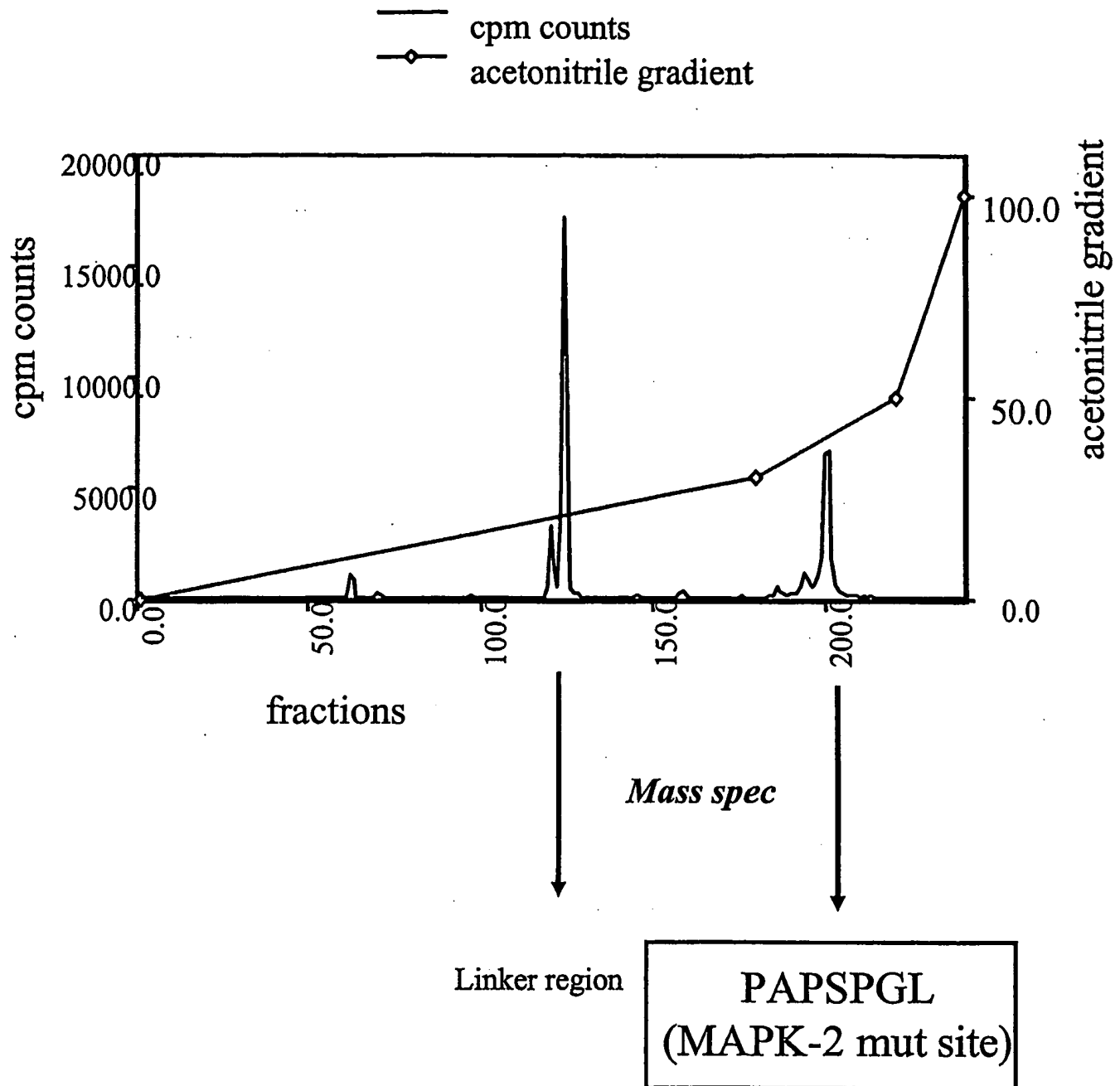


Figure 9

**C-term of ASPP2:**

550 - QPRVLLSPSIPS VGQDQTLSPGSKQESPPAAA VRPFTPQPS  
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ALTKTHTRGPHFSSVYGKPVIAAAQNQQHPENTYSNSQ  
GKPGSPEPETEPVSSVQENHENERIPRPLSPTKLLPFLSNP  
YRNQSDADLEALRKKLSNAPRPLKKRSSITEPEGPNPNI  
QKLLYQRTTIAAMETSVPSYPSKSASVTASSESPVEIQNP  
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DYEPEGVPDNSPNLQNNPE - 849

S — MAPK sites  
SS — PKA site

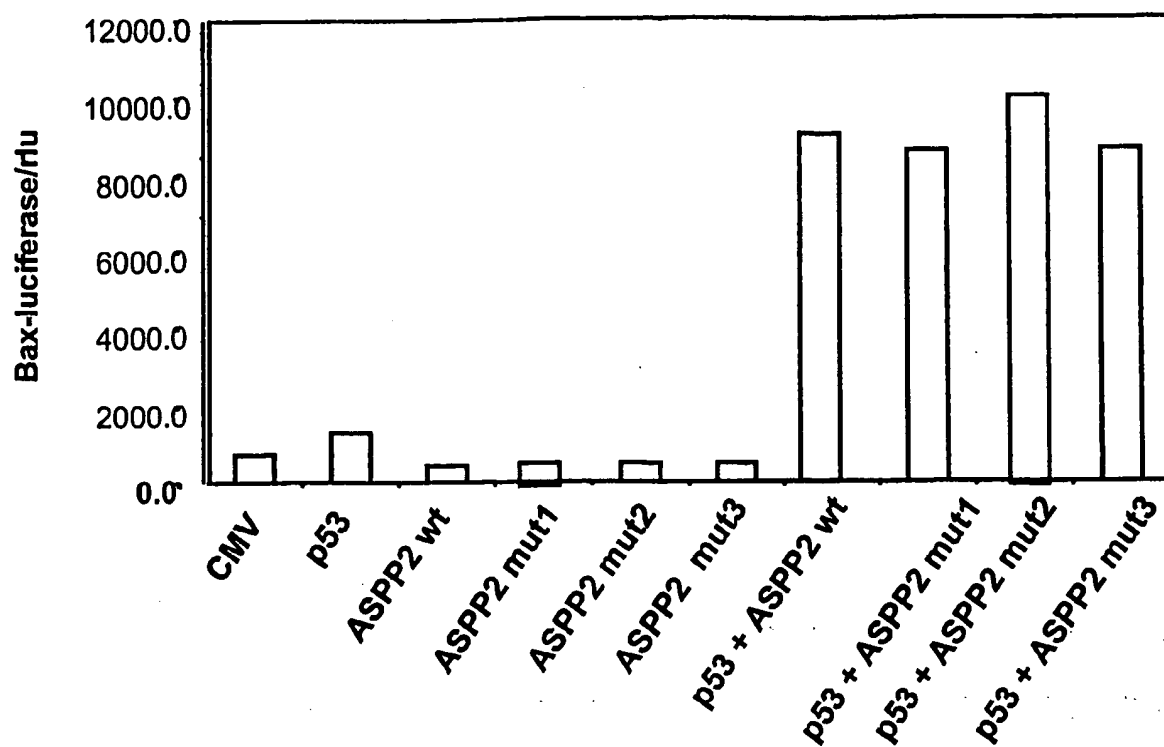
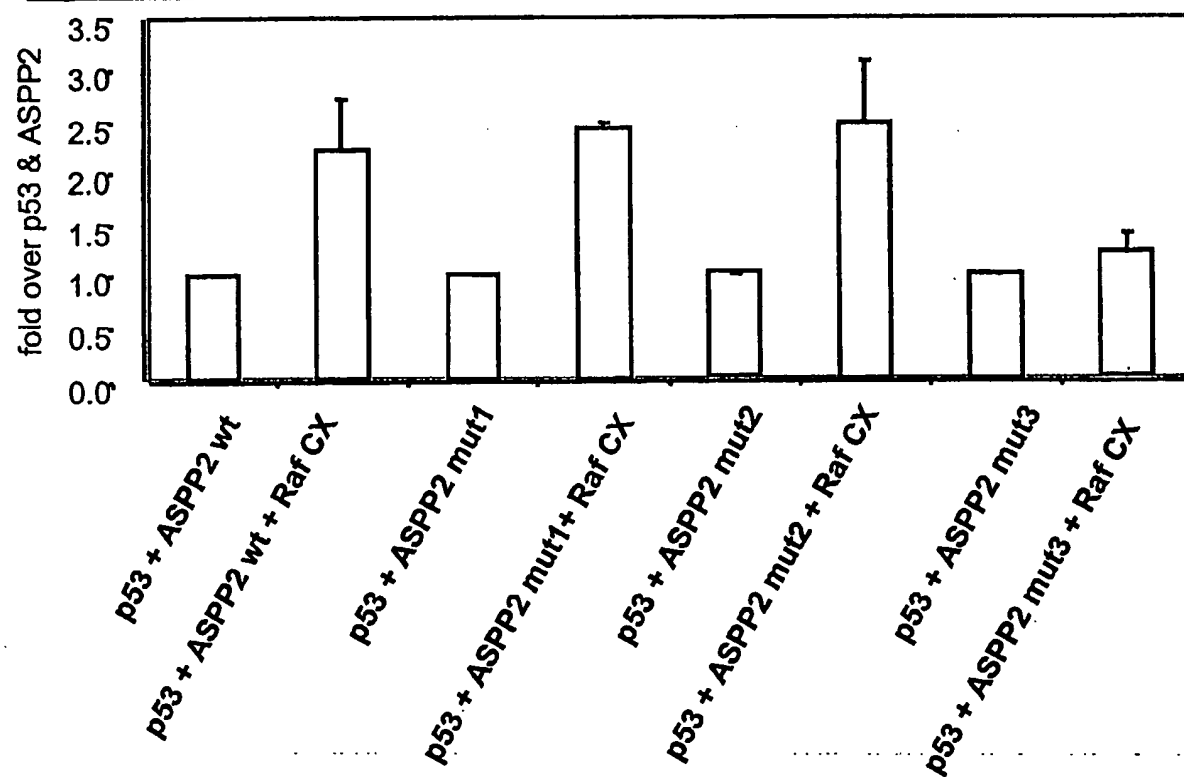
**Figure 10A****Figure 10B**

Figure 11A

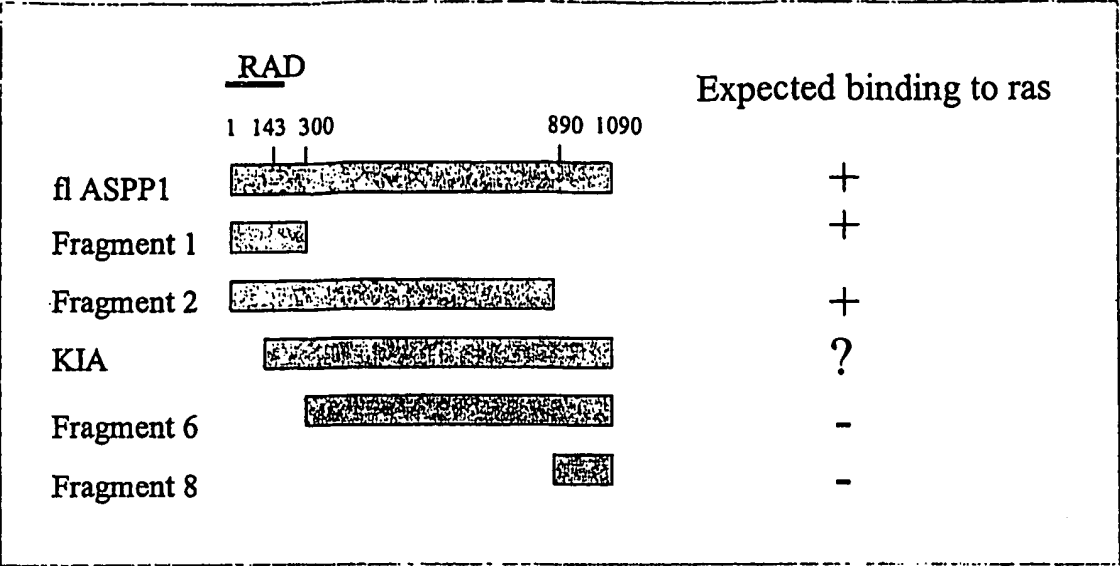


Figure 11B

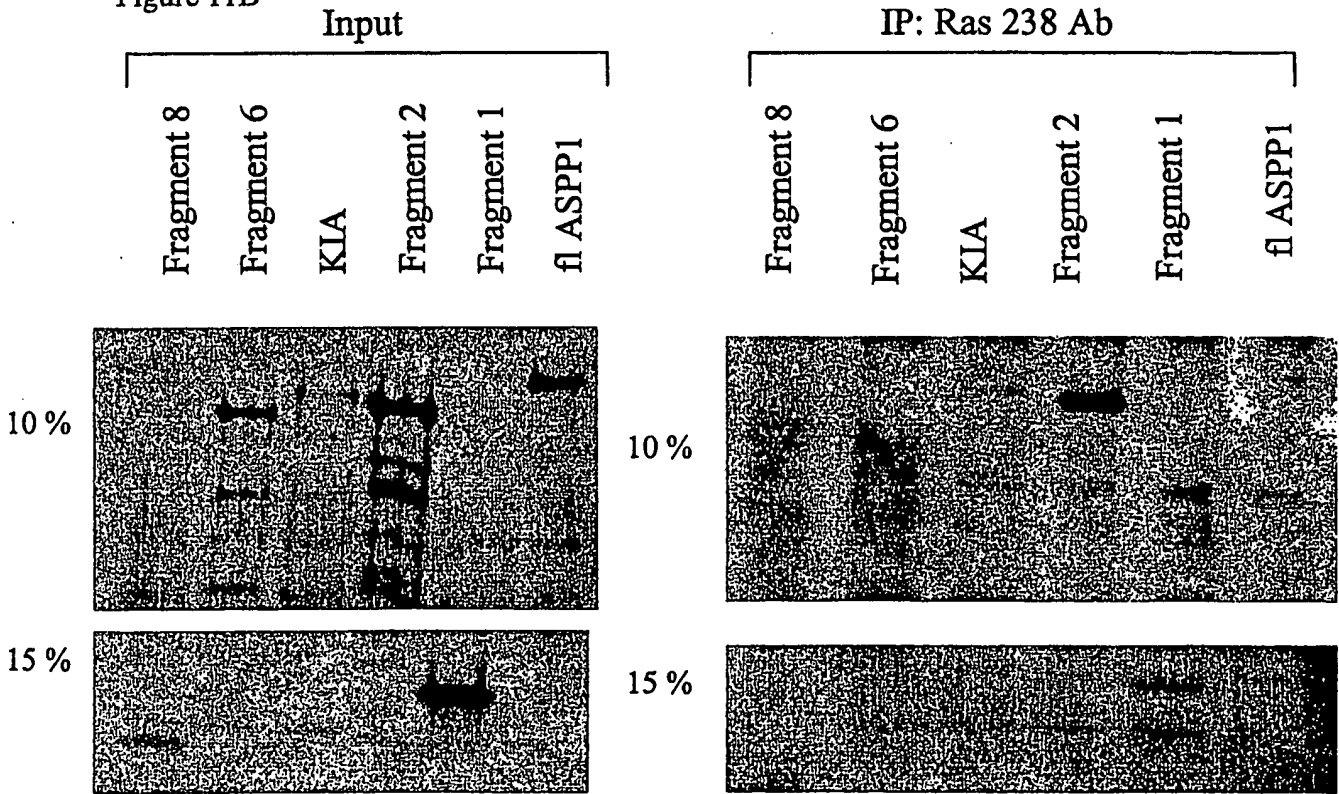




Figure 12

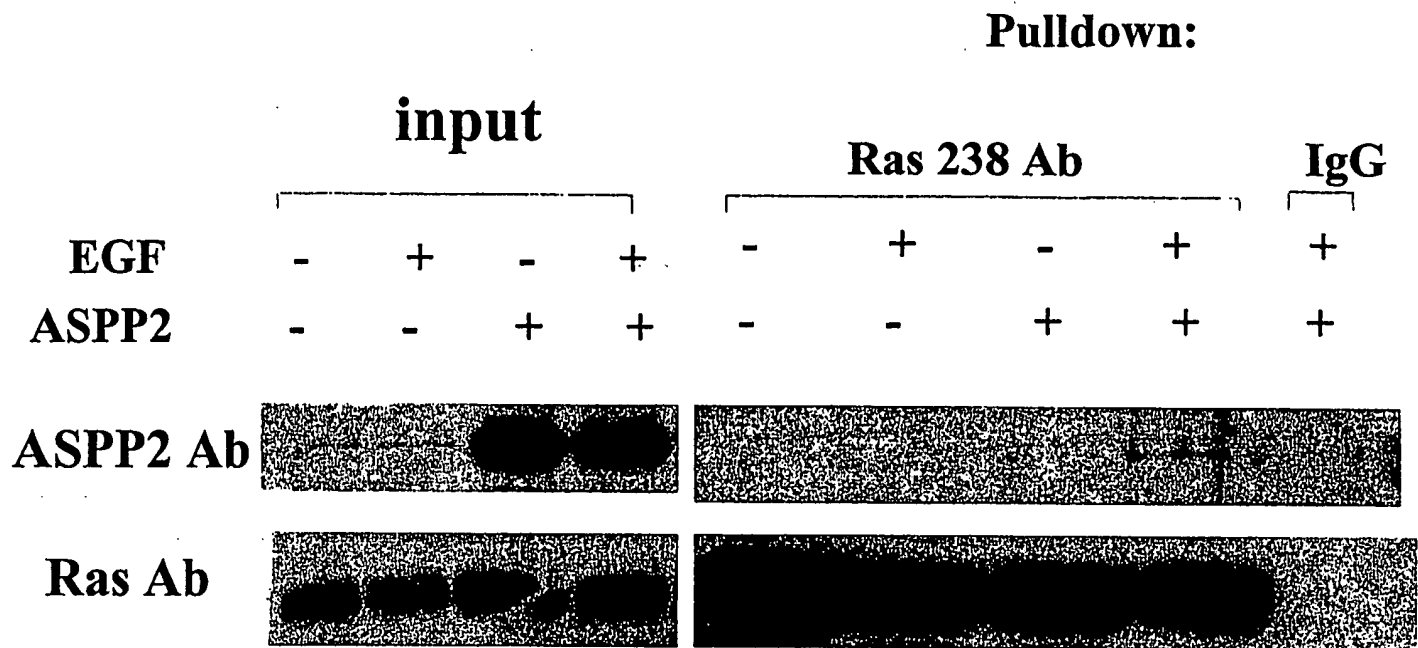
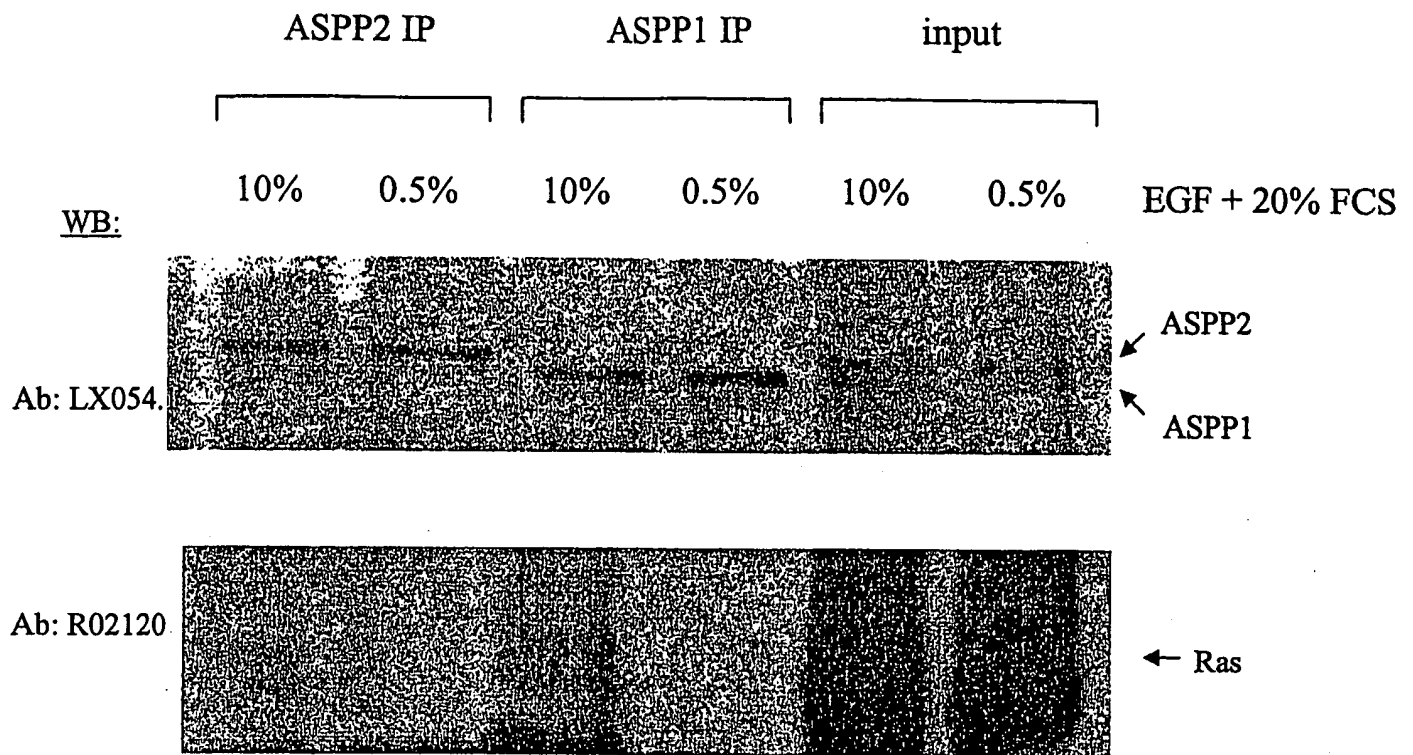
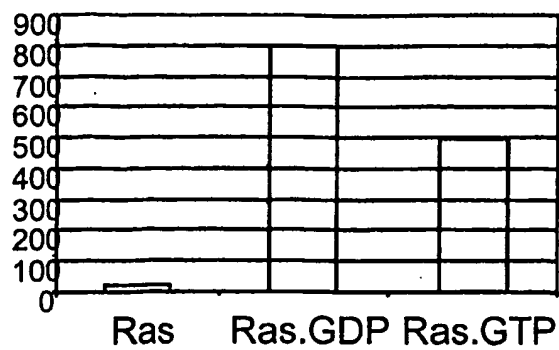
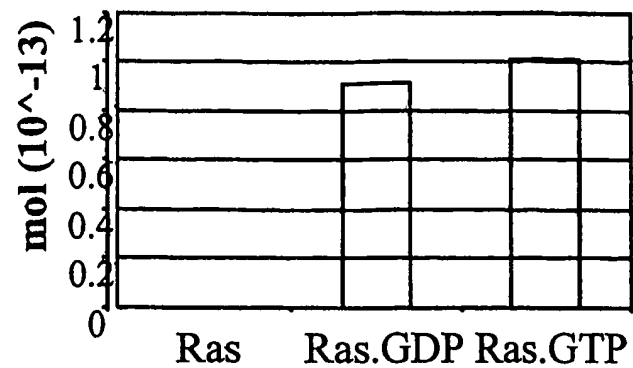
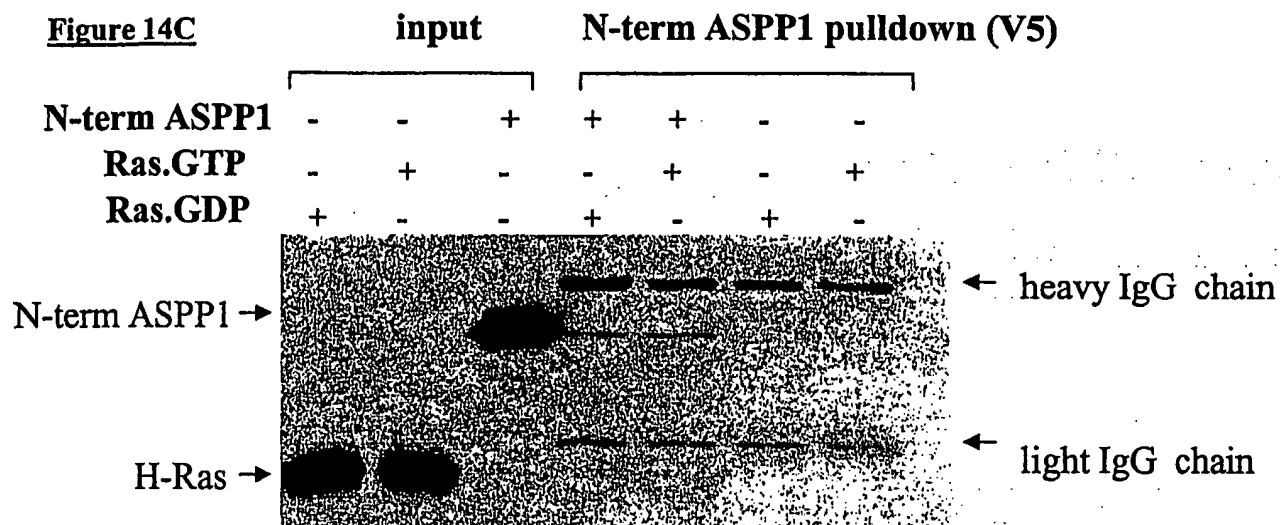


Figure 13



**Figure 14A****Figure 14B****Figure 14C**

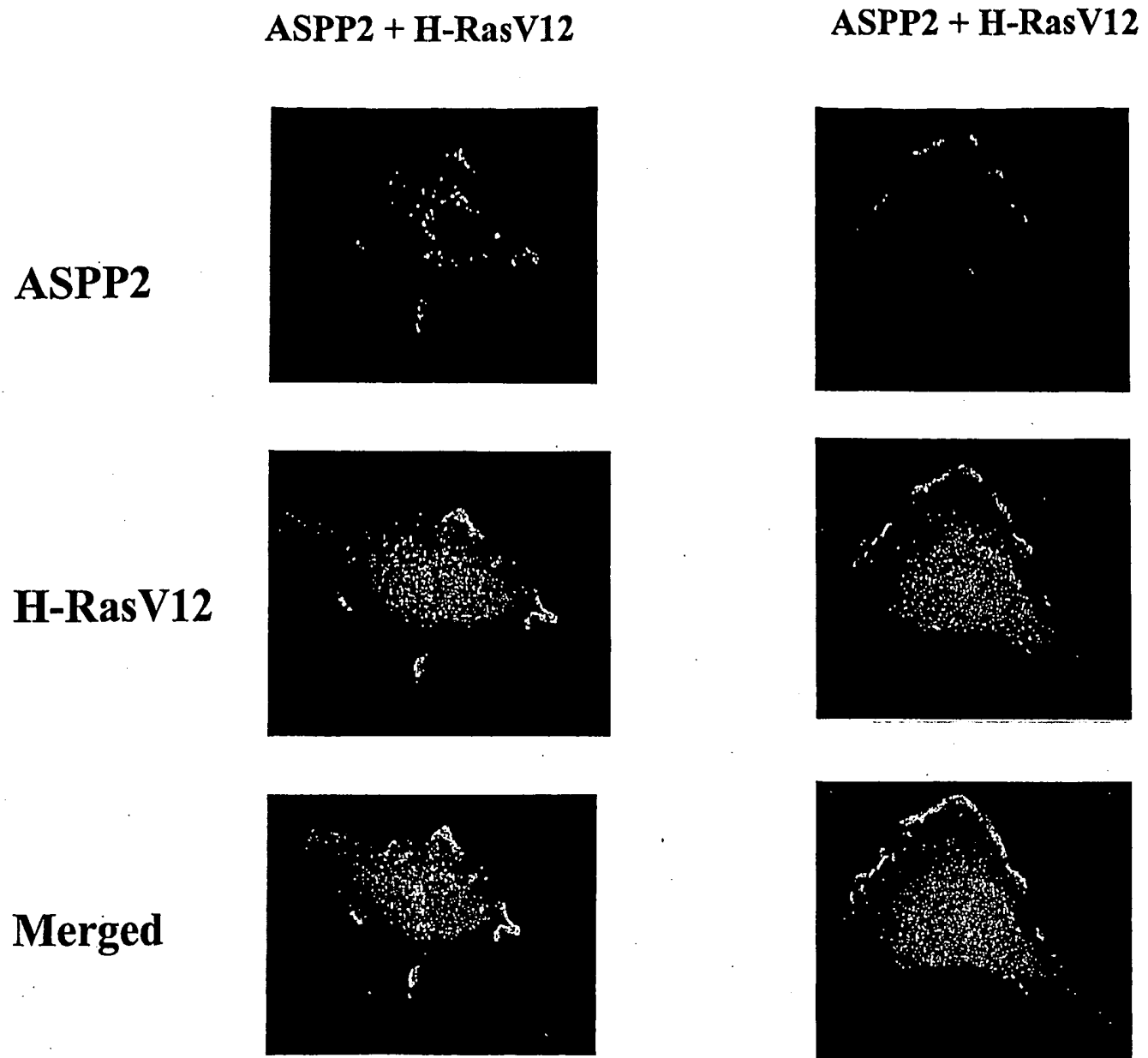


Figure 15

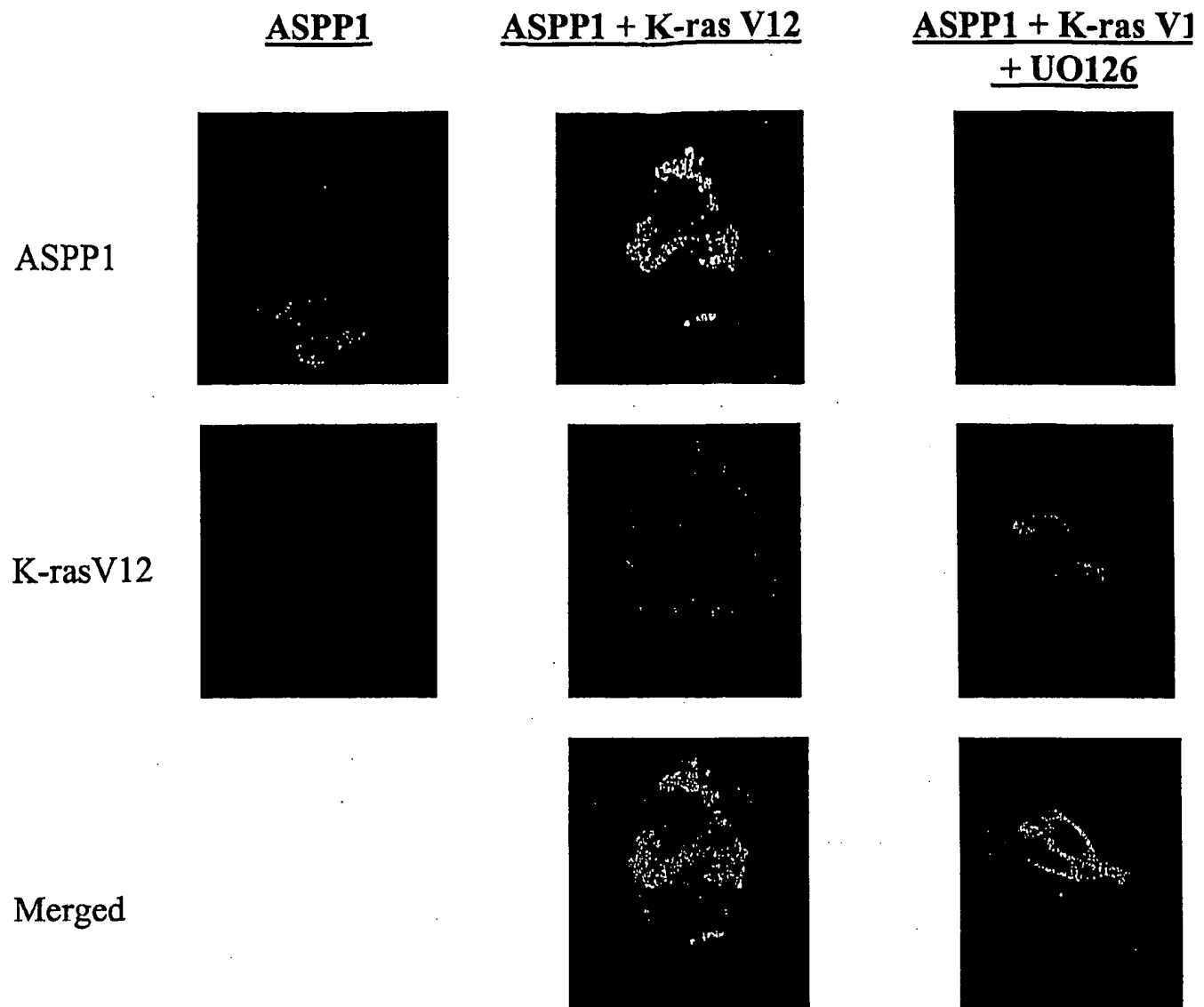


Figure 16

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Figure 17b

GTACAGAGCGTCGAAGAGACAAAGCCGCTCAGGGGGCCCGCCGGGGCGGGGAGCCCGGGGCTTGTGGTGCCCCAGC  
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CT

Figure 17c

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NIQKLLYQRFNTLAGGMEGTPFYQPSPSQDFMGTADVDNGNTNANGNLEELPPAQPTAPLPAEPAPSSDANDNBLPSPE  
PEELICPQTHQTAEPEDNNNNVATVPTTEQIPSPVAEAPSPGEEQVPPAPLPPASHPPATSTNKRTNLKKPNSERTGH  
GLRVRFNPLALLLDASLEGEFDLVQRIIYEVEDPSKPNDEGITPLHNAVCAHHHIVKFLLDGFGVNVNAADSDGWTPLHC  
AASCNSVHLCKQLVESGAAPASTISDIETAADKCEEMEEGYIQCSQFLYGVQEKLGVMNKGVAAYALWDYEAQNSDELSP  
HEGDALTILRRKDESETEWWWARLGDRGYVPKNLLGLYPRIKPRQRTLA



Figure 17d

MMPMFLTVYLSNNBQHPTEVPVTPETICRDVVDLCKEPGESDCHLABVWCGSERPVADNERMPDVLQRFGSQRNEVRPFL  
RHERPPGRDIVSGPRSQDPSLKRNGVKVPGEYRRKENGVNSPRMDLTLAELQEMASRQQQIEAQQLLATKEQRLKFLK  
QQDORQQQVABQEBLKRLKEIAENQEAKLKKVRALKQHVEQRLSNGKLVEEIEQMNNLFQKQRELVLAWSKVEELTR  
QLEMLKNGRIDSHHDNQSAVAELDRLYKELQLRNKLNQEQNAKLQQRECLNKRNSEVAVMDKRVNBLRDLNWKKAALQ  
QKENLPVSSDGNLPQQAASAPSRVAAGPYIQSSTMPRMPSPRELLVKPALPDGSLVIOASEGPMKIQTLPNMRSGAASQ  
TKGSKIHPVGPDWSPSNADLPFSQGSASVPQSTGNALDQVDDGEBVPLREKEKKVRPFSPMFDVDAQSNAPPSFGTLRKNQS  
SEDILRDAQVANKVAKVPPVPTKPKQINLPYFGQTNQPPSDIKPDGSSQQLSTVVPSMGTKPKPAGQQPRVLLSPSIP  
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LRKKLSNAPRPLKKRSSITEPEGPNPNQKLLYQRTTIAAMETISVPSYPSKSASVTASSESPVEIQNPYLHVEPEKEV  
VSLVPESLSPEDVGNASTENSMDPAPSPGLDYEPEGVPDNPSPNLQNNPEEPNPEAPHVLDVYLEBYPYPYPYPYPSPGEPE  
GPGEDSVSMRPPEITGQVSLPPGKRTNLRKTGSEIRIAHGMRVKFNPLALLDSSLEGEFDLVQRIIYEVDPPSLPNDEGI  
TALHNAVCAHTEIVKFLVQPGVNVNAADSDGWTPLHCAASCNNVQCKFLVESGAAVFAMTYSMDQTAADKCEEMEEGY  
TQCSQPLYGVQEKMGIMNKGVYIALWDYEPQNDDELPMKEGDCMTI IHREDEDEI EWWWARLNDKEGYVPRNLLGLYPRI  
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Figure 18a

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GTGCCTGTTGGACATCCTGGATACCGCCGGCCAGGAGGAGTACAGCGCCA  
TGCGGGACCAGTACATGCGCACCGGGGAGGGCTTCCTGTGTGTGTTTGCC  
ATCAACAACACCAAGTCTTTTGAGGACATCCACCAGTACAGGGAGCAGAT  
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AGGGAGTGGAGGATGCCTTCTACACGTTGGTGCGTGAGATCCGGCAGCAC  
AAGCTGCGGAAGCTGAACCCTCCTGATGAGAGTGGCCCCGGCTGCATGAG  
CTGCAAGTGTGTGCTCTCCTGA

Figure 18b

MTEYKLVVVGAGGVGKSALTIQLIQNHFVDEYDPTIEDSYRKQVVIDGETCL  
LDILD TAGQEEYSAMRDQYMRTGEGFLCVFAINNTKSFEDIHQYREQIKRVK  
DSDDVPMVLVGNKCDLAARTVESRQAQDLARSYGIPYIETSAKTRQGVDAF  
YTLVREIRQHKLRKLNPPDESGPGCMSCKCVLS

Figure 18c

ATGACGGAATATAAGCTGGTGGTGGTGGGCGCCGTCGGTGTGGGCAAGA  
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GTGCCTGTTGGACATCCTGGATACCGCCGGCCAGGAGGAGTACAGCGCCA  
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CAAACGGGTGAAGGACTCGGATGACGTGCCCATGGTGCTGGTGGGGAAC  
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AGGGAGTGGAGGATGCCTTCTACACGTTGGTGCGTGAGATCCGGCAGCAC  
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CTGCAAGTGTGTGCTCTCCTGA

Figure 18d

MTEYKLVVVGAVGVGKSALTIQLIQNHFVDEYDPTIEDSYRKQVVIDGETCL  
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Figure 18e

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TGTCTCTTGGATATTCTCGACACAGCAGGTCAAGAGGAGTACAGTGCAAT  
GAGGGACCAGTACATGAGGACTGGGGAGGGCTTTCTTTGTGTATTTGCCA  
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ATGTGATTTGCCTTCTAGAACAGTAGACACAAAACAGGCTCAGGACTTAG  
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GGTGTGATGATGCCTTCTATACATTAGTTCGAGAAATTCGAAAACATAA  
AGAAAAGATGAGCAAAGATGGTAAAAAGAAGAAAAAGAAGTCAAAGAC  
AAAGTGTGTAATTATGTAA

Figure 18f

MTEYKLVVVGAGGVGKSALTIQLIQNHFVDEYDPTIEDSYRKQVVIDGETCL  
LDILD TAGQEEYSAMRDQYMRTGEGFLCVFAINNTKSFEDIHHYREQIKRVK  
DSEDVPMVLVGNKCDLPSRTVDTKQAQDLARSYGIPFIETSAKTRQGVDDAF  
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Figure 18g

ATGACTGAATATAAACTTGTGGTAGTTGGAGCTGTCGGCGTAGGCAAGAG  
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AACAAATAGAGGATTCCTACAGGAAGCAAGTAGTAATTGATGGAGAAACC  
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GGTGTGATGATGCCTTCTATACATTAGTTTCGAGAAATTCGAAAACATAA  
AGAAAAGATGAGCAAAGATGGTAAAAAGAAGAAAAGAAGTCAAAGAC  
AAAGTGTGTAATTATGTAA

Figure 18h

MTEYKLVVVGAVGVGKSALTIQLIQNHFVDEYDPTIEDSYRKQVVIDGETCL  
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Figure 19a

```
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taa
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Figure 19b

```
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TDLYKLLKTQHLSNDHICYFLYQILRGLKYIHSANVLHRDLKPSNLLLNTTCDLKI
CDFGLARVADPDHDHTGFLTEYVATRWRAP EIMLSKGYTKSIDIWSVGCILA
EMLSNRPIFGKHYLDQLKHILGILGSPSQEDLNCIINLKARNYLLSLPHKNKVPW
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Figure 20a

```

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```

Figure 20b

```

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ILSKGYNKAVDWWALGVLIIYEMAAGYPPFFADQPIQIYEKIVSGKVRFP SHFSSDLKDLLRNLLQVDLTK
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F

```

Figure 21a

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CATTCTTCTGGAGCTGGAGGCACCCCTCAAGATCTGCGGTGACATACACG  
GCCAGTACTACGACCTTCTGCGACTATTTGAGTATGGCGGTTTCCCTCCCG  
AGAGCAACTACCTCTTTCTGGGGGACTATGTGGACAGGGGCAAGCAGTCC  
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CTTCTTCCTGCTCCGTGGGAACACGAGTGTGCCAGCATCAACCGCATCTA  
TGGTTTCTACGATGAGTGCAAGAGACGCTACAACATCAAACCTGTGGAAAA  
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TAGAAGACGGCTACGAGTTCTTTGCCAAGCGGCAGCTGGTGACACTTTTC  
TCAGCTCCCAACTACTGTGGCGAGTTTGACAATGCTGGCGCCATGATGAG  
TGTGGACGAGACCCTCATGTGCTCTTTCCAGATCCTCAAGCCCGCCGACA  
AGAACAAGGGGAAGTACGGGCAGTTCAGTGGCCTGAACCCTGGAGGCCG  
ACCCATCACCCACCCCGCAATTCCGCCAAAGCCAAGAAATAG

Figure 21b

MSDSEKLNLDSEIIGRLLEVQGSRPGKNVQLTENEIRGLCLKSREIFLSQPILLEL  
EAPLKICGDIHGQYYDLLRLFYGGFPPESNYLF LGDYVDRGKQSLETICLLL  
AYKIKYPENFFLLRGNHECASINRIYGFYDECKRRYNIKLWKTFTDCFNCLPIA  
AIVDEKIFCCHGGLSPDLQSMEQIRRMPTDVPDQGLLCDLLWSDPDKDVQ  
GWGENDRGVSFTFGAEVVAKFLHKHDLDLICRAHQVVEDGYEFFAKRQLVT  
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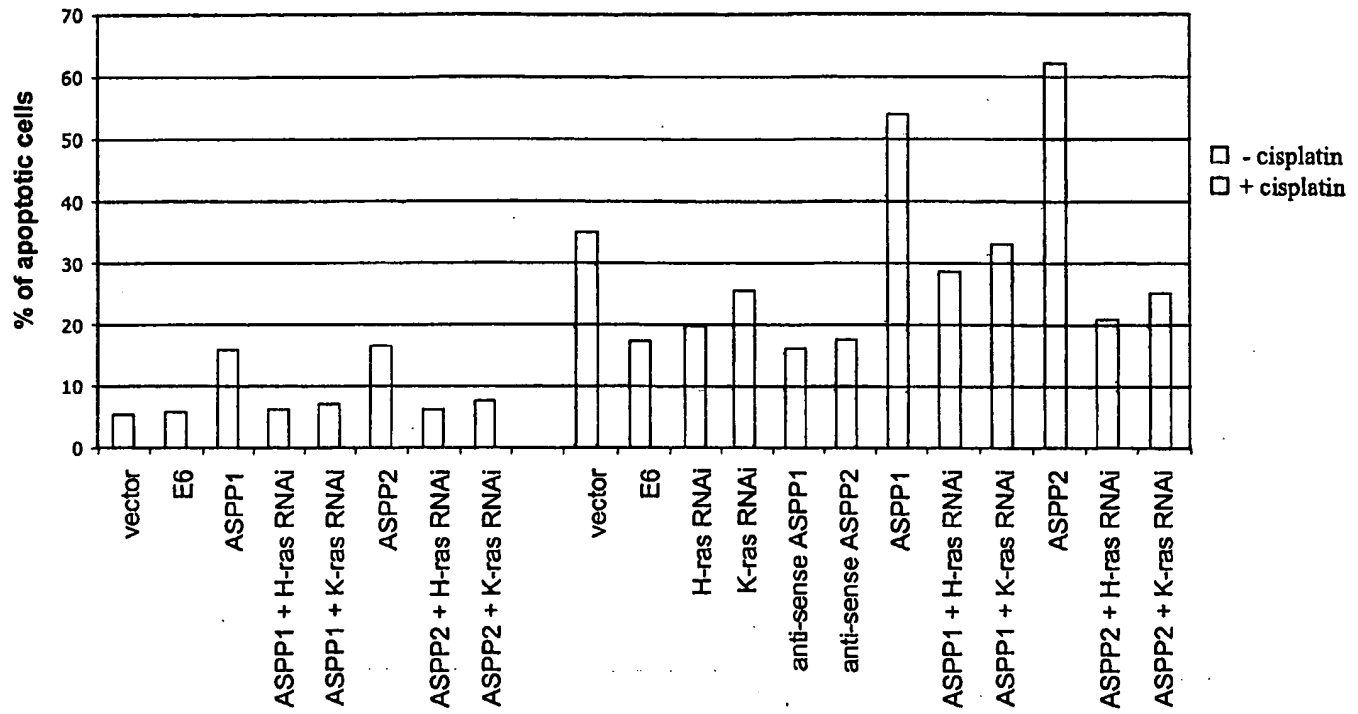


Figure 22

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45  
A

ASPP1(1-89)  
ASPP2 (1-89)  
RGL2 (RA domain)  
AF-6 (RA domain)

10 20 30 40 50

M E P M I L T V Y L S N N Q I L T - - E P P P E T T C R H V Y F C K E - - G E - - G S  
N E P M I L T V Y L S N N Q H V T - - E P P P E T T C R D L C K E - - G E - - D S  
D R I I R V Q M L O E G S V Y - - K B S O D K A P D S R V L K - - K N N - - D S  
F H G V M R F Y Y Q D K A A G N F A K C I R E S T A T T Q E T L A E Y E F D M E L S

ASPP1 (1-89)  
ASPP2 (1-89)  
RGL2 (RA domain)  
AF-6 (RA domain)

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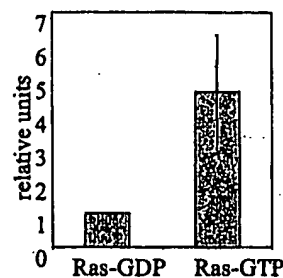
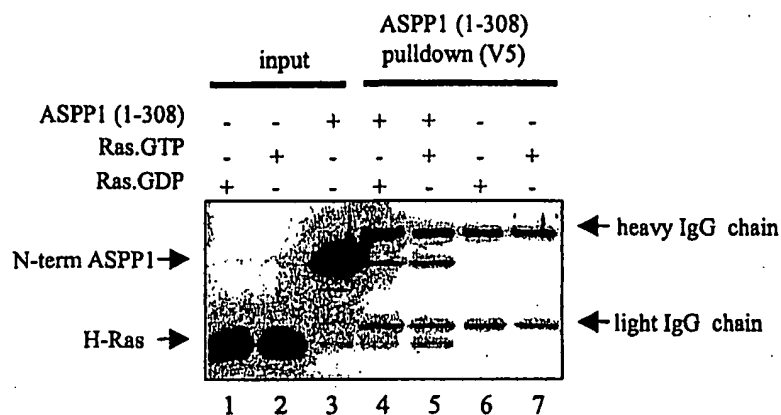
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V A S B E Y L Q L G G E T I P A S A N V F Y A N D E - A S H L L O R R - - - R

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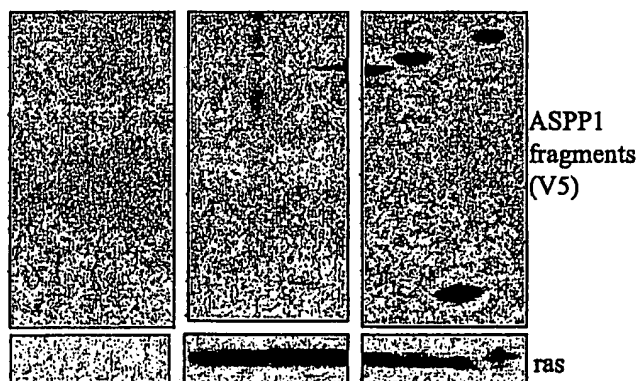
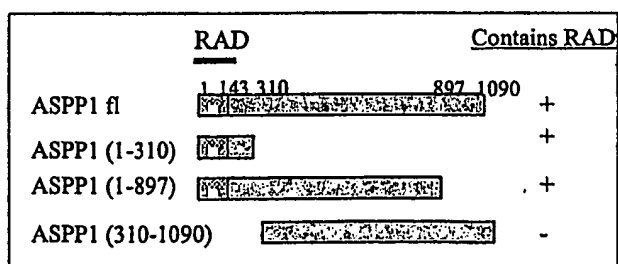
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**B**

**23**  
**C**

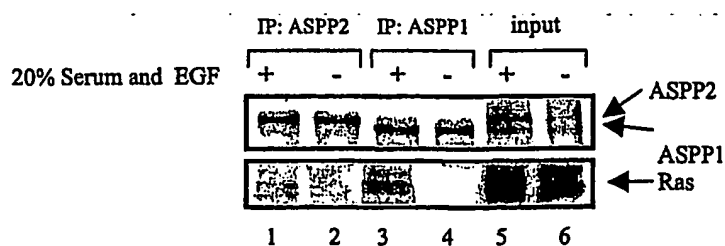
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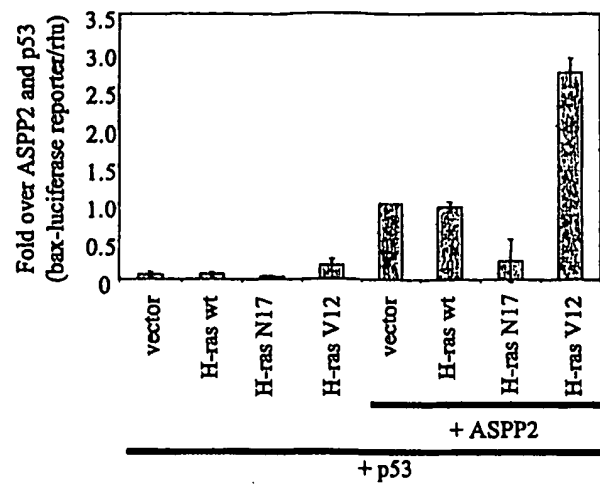
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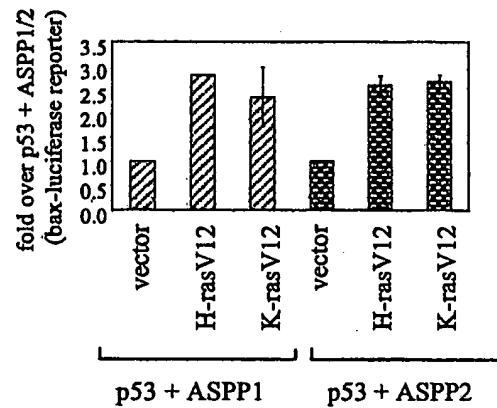
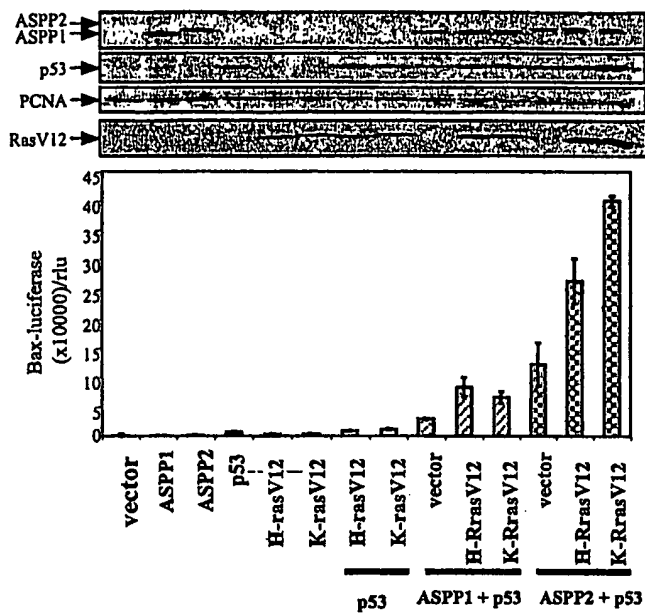
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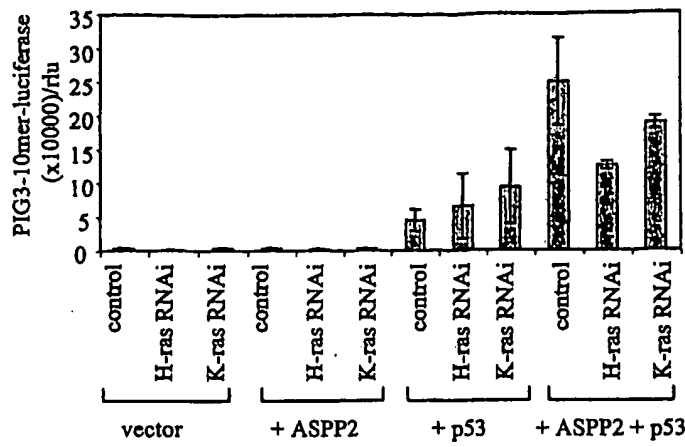


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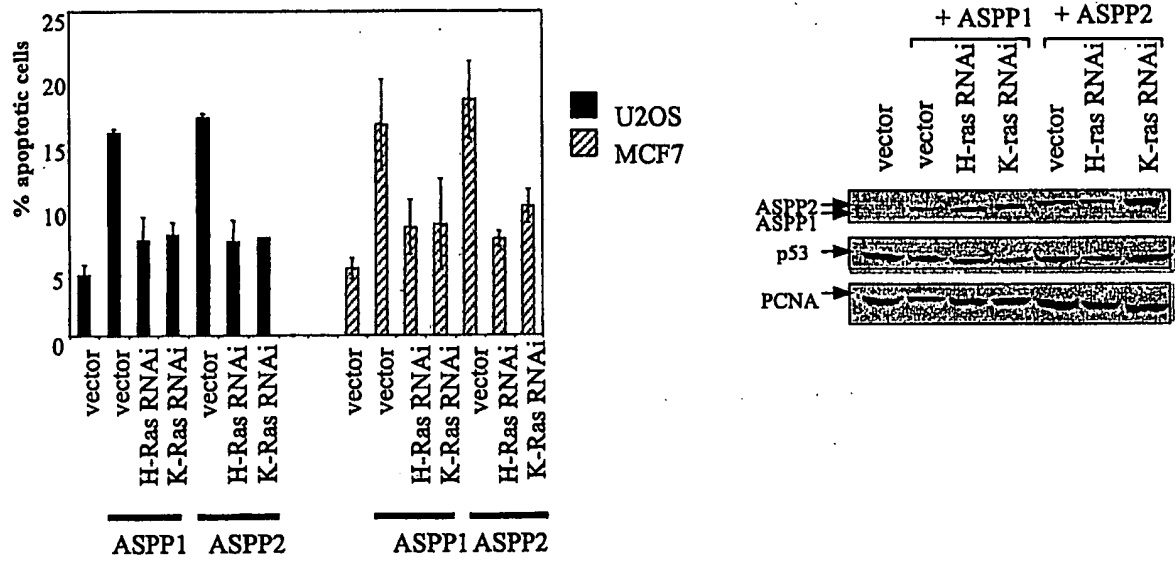


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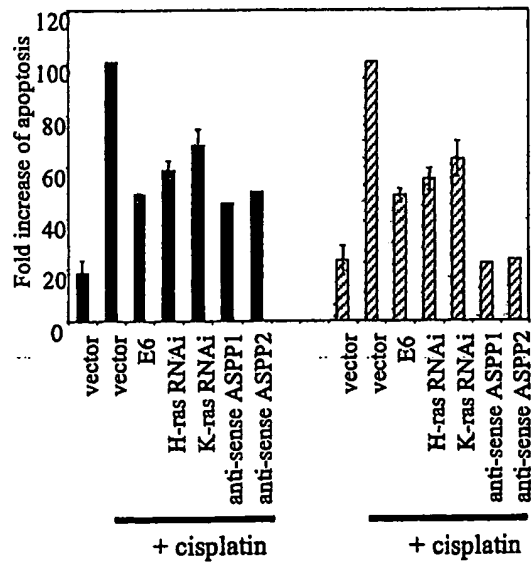
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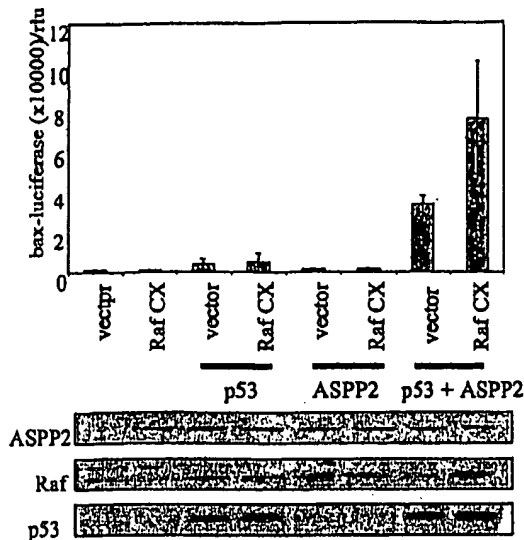
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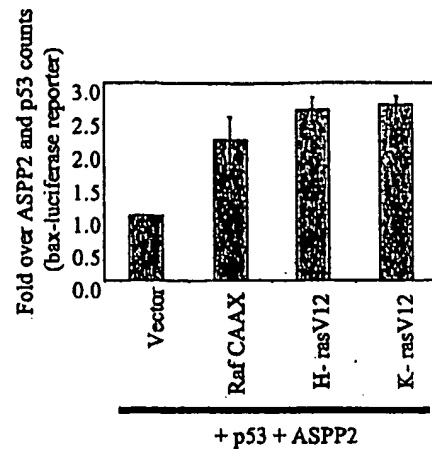


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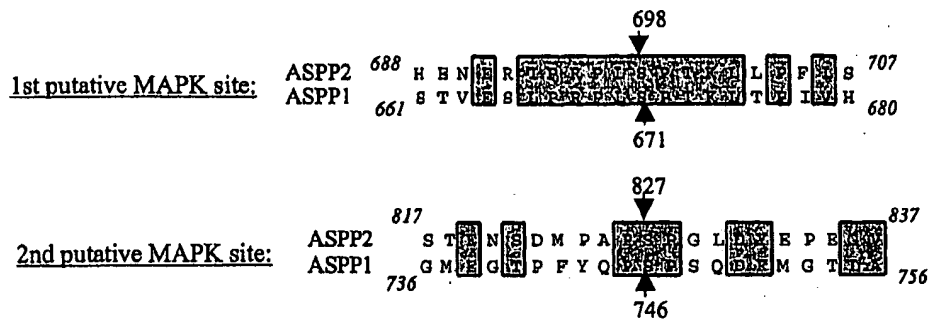
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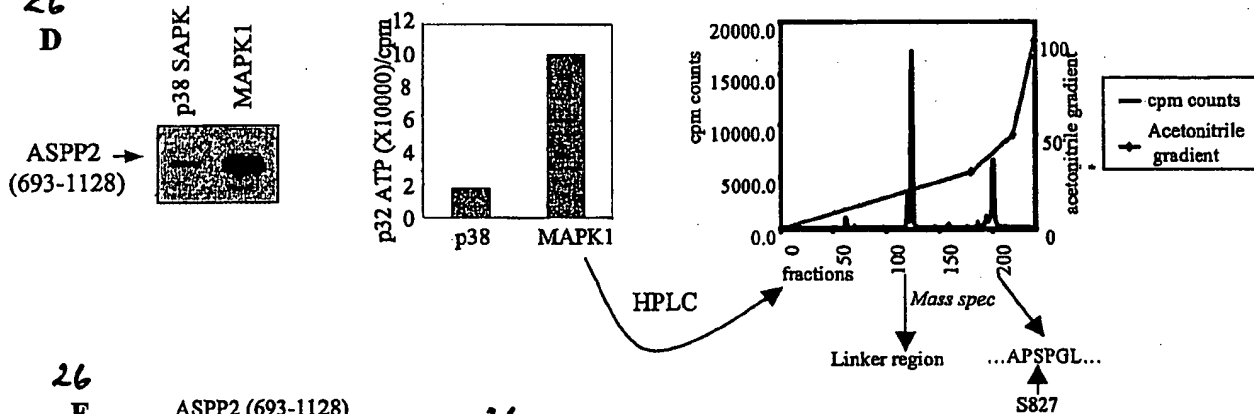
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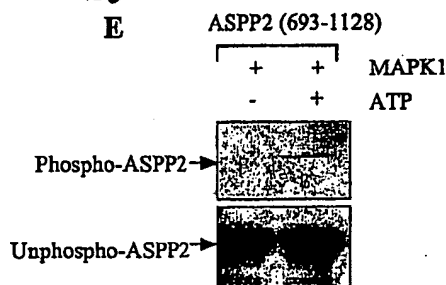
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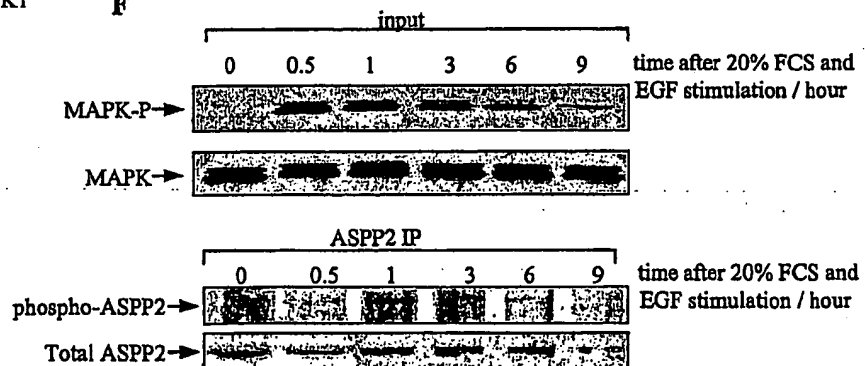
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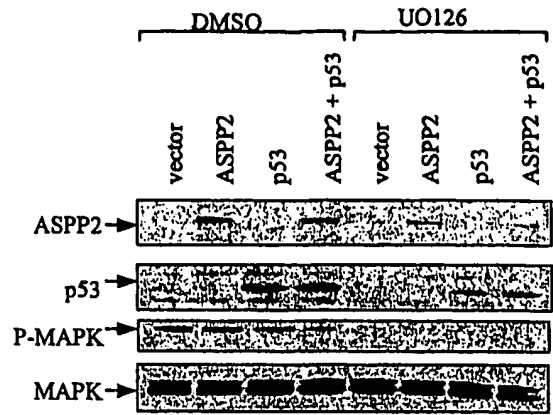
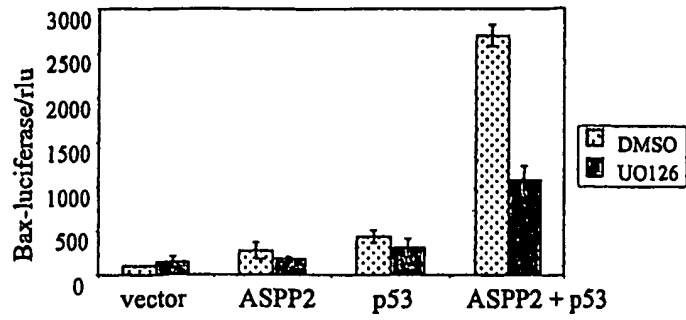
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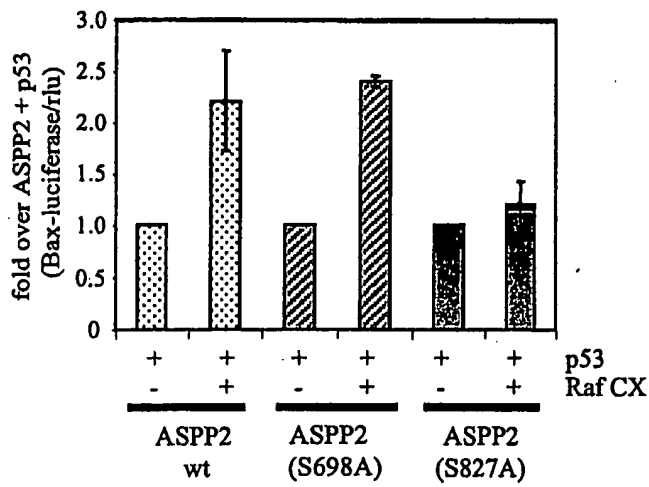
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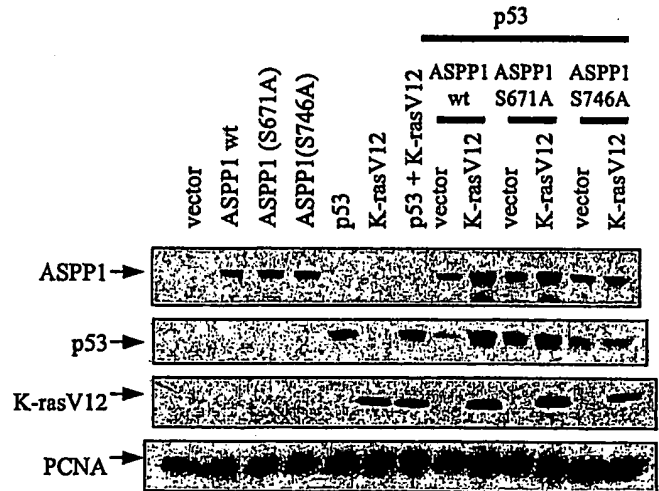
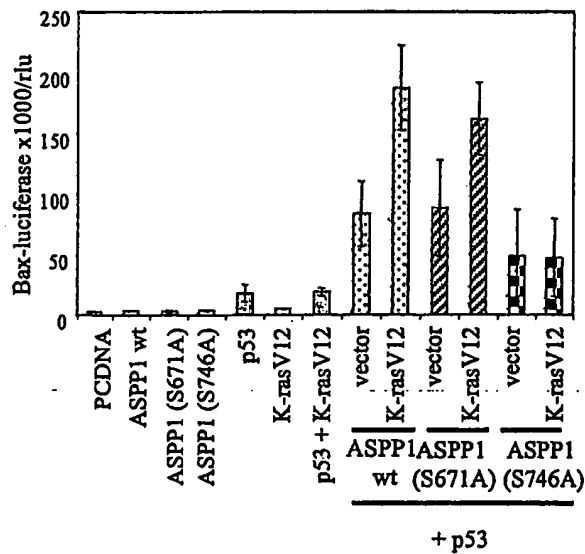
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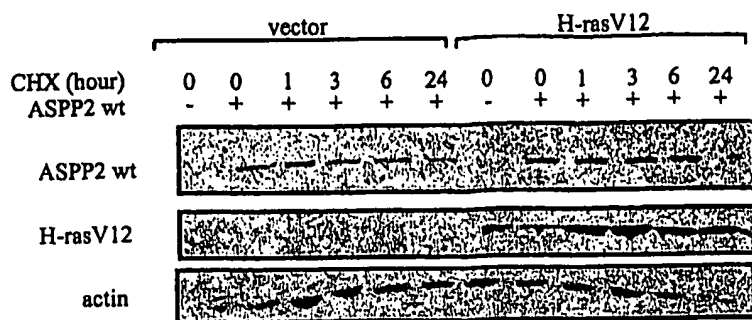
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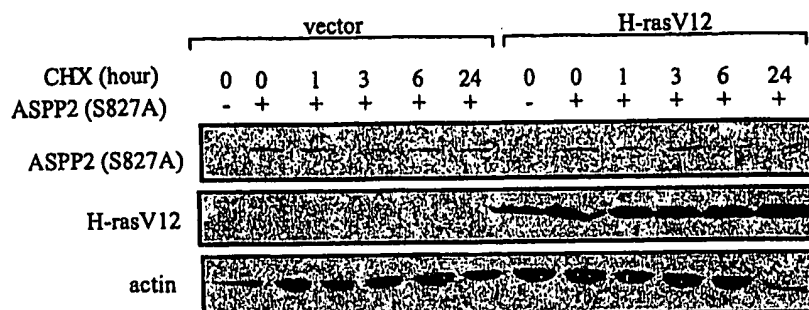
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C



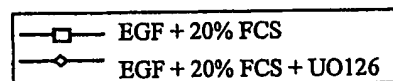
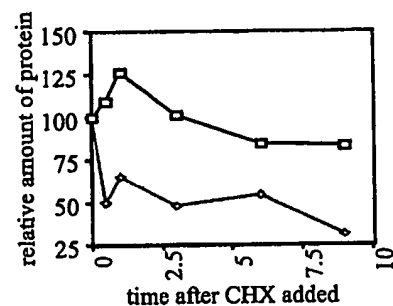
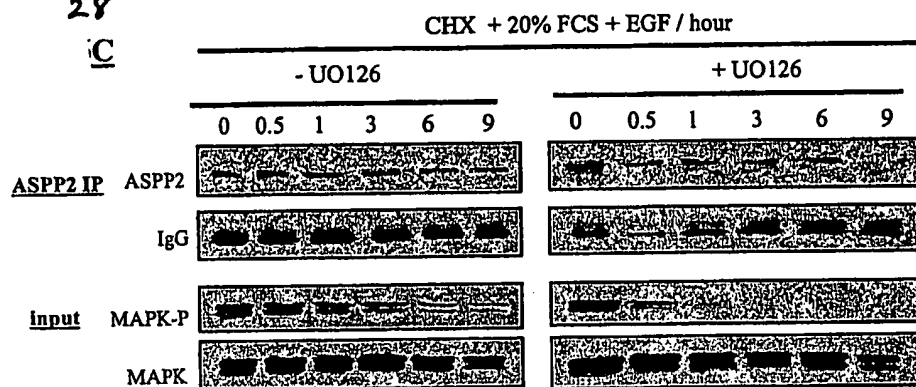
28

A

28

B

28

C

28

D